

**DESCRIPTION**

The CONTRACTOR shall install a furnished 13mm diameter ohm, flexible cable to be used for the Rochester TCS communications interconnector.

**CONDUIT PREPARATION**

The CONTRACTOR shall have prepared the conduit for pulling coaxial cable under other bid items of this contract.

**CABLE PULLING AIDS AND HANDLING PRECAUTIONS**

The 13mm flexible cable shall be attached to the pulling cable by means of a braided pulling sleeve of 900mm minimum length. Pulling force shall not exceed 91 kg and shall not cause more than a 0.2% permanent elongation. A quick-disconnect pulling harness shall be employed to insure that the pulling force is not exceeded.

The cable jacket shall be lubricated with a neutral lubricant that will not attack the polyethylene jacket to minimize pulling friction. An "elephant trunk" cable guide shall be employed between the top of the manhole and the entrance end of the conduit to prevent cable damage where deemed necessary by the ENGINEER.

Caution shall be observed by the CONTRACTOR in pulling of cable through the conduits to prevent damage to cable jackets, shields and conductors. When a cable is pulled into a conduit the end of the cable shall be covered with polyvinyl chloride shrink sleeving to exclude moisture, and it shall be so kept until connections are made with terminations equipment. Both the shrink sleeving and the manner in which it is applied shall be approved by the ENGINEER before being used.

Cable pulleys shall be used at all locations where a change in direction of the cable would otherwise create excessive pulling drag. Mechanical pulling aids may be used providing the pulling forces do not exceed the maximum tensile limit of 91 kg for the coax cable. Reel brakes shall be provided to ensure that the cable does not "kink" coming off the reel.

**CABLE INSTALLATION BETWEEN THE MANHOLE OR PULL BOX AND CABINET**

When pulling the cable from the nearest manhole or pull box to the equipment or controller cabinet at curb-side, it shall not be broken and spliced to a second interconnecting cable to complete the run.

Instead a length of cable shall be pulled out of the exit end of the primary conduit in the manhole or pull box sufficient in length to reach the designated equipment cabinet at curb side. A pull cable shall be used in the manhole or pull box to conduit to pull this remaining length of cable through and up into the cabinet with sufficient length to reach the amplifier, or tap, to which it is to be connected.

**ITEM 688.9920M      COAXIAL CABLE INSTALLATION-COUNTY FURNISHED  
MATERIAL**

Cable coiling in the manhole or pull box will be as ordered by the ENGINEER. The coil shall be tied back to prevent interference with other cabling in the manhole or pull box or with access to junction boxes, etc.

**POST-INSTALLATION TESTS**

After the cable is installed, Monroe County Department of Transportation shall be contacted to perform all testing.

**METHOD OF MEASUREMENT**

The quantity to be paid for in this item shall be the lineal meters of installed cable furnished by Monroe County.

**BASIS OF PAYMENT**

The price bid shall be a unit price per lineal meter of installed cable. The costs of all hooks, racks, and other devices for supporting the cable in manholes, pull wire, material, installation labor, tools and equipment required for cable installation shall be included in the unit price of this item.

Payment shall be made for each installed section upon successful completion of the approved communications network test.

Payment will be made under:

<b><u>Item No.</u></b>	<b><u>Item</u></b>	<b><u>Pay Unit</u></b>
688.9920M	Coaxial Cable Installation County Furnished Material	M